

Mouse EIF2A Monoclonal Antibody | anti-EIF2A antibody

EIF2A Antibody

CATALOG # AAA290836	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

EIF2A; Monoclonal Antibody; EIF2A Antibody; Eukaryotic translation initiation factor 2 subunit 1; Eukaryotic translation initiation factor 2 subunit alpha; eIF-2-alpha; eIF-2A; eIF-2alpha; EIF2S1; anti-EIF2A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1763CT102.71.17
Specificity	This EIF2A antibody is generated from a mouse immunized with a recombinant protein of human EIF2A.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	315
Applicable Applications for anti-EIF2A antibody	ELISA, WB (Western Blot)
Antigen Type	Recombinant Protein
Antigen Source	Human
Cellular Location	Cytoplasmic granule. Note=The cytoplasmic granules are stress granules which are a dense aggregation in the cytosol composed of proteins and RNAs that appear when the cell is under stress. Colocalizes with NANOS3 in the stress granules (By similarity).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

All lanes : Anti-EIF2A Antibody at 1:2000 dilution
Lane 1: K562 whole cell lysate
Lane 2: MCF-7 whole cell lysate
Lane 3: PC-12 whole cell lysate
Lane 4: NIH/3T3 whole cell lysate
Lane 5: HepG2 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 36 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)

All lanes : Anti-EIF2A Antibody at 1:2000 dilution
Lane 1: HepG2 whole cell lysate
Lane 2: MCF-7 whole cell lysate
Lane 3: PC-12 whole cell lysate
Lane 4: NIH/3T3 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 36 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-EIF2A antibody	Functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.
Product Categories/Family for anti-EIF2A antibody	Crown Antibodies; Primary Antibodies
References	Ernst H.,et al.J. Biol. Chem. 262:1206-1212 (1987). Langland J.O.,et al.Virology 324:419-429 (2004). Paytubi S.,et al.Biochem. J. 409:223-231 (2008). Montero H.,et al.J. Virol. 82:1496-1504 (2008). Mayya V.,et al.Sci. Signal. 2:RA46-RA46 (2009).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758256
NCBI GeneID	1965
NCBI Accession #	NP_004085.1
NCBI GenBank Nucleotide #	NM_004094.4
UniProt Accession #	P05198
Molecular Weight	36112 Da
NCBI Official Full Name	eukaryotic translation initiation factor 2 subunit 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2 subunit alpha
NCBI Official Symbol	EIF2S1
NCBI Official Synonym Symbols	EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha
NCBI Protein Information	eukaryotic translation initiation factor 2 subunit 1
UniProt Protein Name	Eukaryotic translation initiation factor 2 subunit 1
UniProt Gene Name	EIF2S1
UniProt Synonym Gene Names	EIF2A; eIF-2-alpha; eIF-2A; eIF-2alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/eif2a-antibody-clone-1763ct102-71-17-western-blot-elisa/290836>